

DERRICK LIN

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EDUCATION

University of California, San Diego Sep 2022 - Jun 2026
Bachelor of Science in Computer Engineering and Cognitive Science (Machine Learning & Neural Computation)
Academic Awards: Provost Honors | **Relevant Courses:** Data Structures, Algorithms, Systems Programming, Digital Systems

WORK EXPERIENCE

LearnWise AI Oct 2023 - Dec 2023
Software Engineering Intern Remote

- Developed and deployed **AWS Lambda functions** using Python and **Linux** command line, resulting in faster response times for products like chatbots
- Used **Python** and **boto3** to initiate AWS batch jobs to sort and clean customer data, resulting in a **40% reduction** in manual work through automated data processing tasks
- Designed and developed an **HTTP server** in AWS Lambda for efficient management and manipulation of LearnWise AI's customer data

LEADERSHIP EXPERIENCE

Computer Science and Engineering Society (CSES) at UCSD Sep 2023 - Present
Event Director - Professional Development La Jolla, CA

- Organized and led **40+ yearly workshops and social events** held within CSES communities, reaching **2000+ students**
- Created technical workshops, projects, and events within CSES, providing career development support
- Fostered the development of **CSES's outreach program** that exposed computer science to hundreds of underrepresented students

PROJECTS

Triton Delivery Jun 2023 - Present
Food Delivery App for UCSD Students

- Created an iOS app using **Swift** and **Firebase** for UCSD students, resulting in a **600% reduction** in food pickup times (30 min to 5 min)
- Implemented essential features, including seamless account creation, efficient order number submission, and real-time delivery tracking, significantly **enhancing user experience and convenience**

A Breast Cancer Detector Jun 2023 - August 2023
Machine learning-based breast cancer detection system

- Created a web application for breast cancer detection using **Python** and **Flask**, achieving a remarkable **95% accuracy rate** in predicting tumor malignancy
- Trained a **machine learning model** using **open source datasets** from UCI for breast cancer patients, making a significant contribution to early cancer detection
- Implemented **MongoDB** with **PyMongo** for secure storage and retrieval of patient information, ensuring **data security** and supporting informed healthcare decisions

TECHNICAL SKILLS

Languages | Java, Python, JavaScript, Typescript, C, C++, Go, ARM Assembly, HTML, CSS, Swift, MATLAB
Technologies | React, Rest APIs, Node.js, Flask, FastAPI, PostgreSQL, Next.js, MongoDB, Express, Git, JUnit
Software | AWS, Google Cloud Platform, Heroku, Valgrind, Firebase, Postman